# AMERICAN FARMER.

# Rubal Economy, internal improvements, prices curbent.

" O fortunatos nimium sua si bona norint

" Agricolas." . . VIRG.

Vol. II.

# BALTIMORE, FRIDAY, MAY 26, 1820.

Num. 9.

#### AGRICULTURE.

A DISCOURSE, READ BEFORE THE

# Essex Agricultural Society,

IN MASSACHUSETTS, FEBRUARY 21, 1820,

Suggesting some Improvements in the Agriculture of the County.

#### BY TIMOTHY PICKERING.

PRESIDENT OF THE SOCIETY.

thereof for publication.

Attest.

FREDERICK HOWES, Secretary.

# DISCOURSE.

GENTLEMEN,

Society, requesting me, 'to make to it such communi-roots of several feet in length. cations as may in my opinion most conduce to the inte-

an evidence of the severity of the drought. This rol-depth, as being much more efficacious than that repeling of the leaves of Indian corn, is the consequence, tion of tillage so common in every district; in part, of scant manuring, but still more of shallow ploughing. Few, perhaps are aware of the depth to been considered, in England, essential to good huswhich the roots of plants will penetrate in a deeply bandry: and so it is by skilful farmers in our own the court of the publication of tillage so common in every district; and so it is by skilful farmers in our own the roots of plants will penetrate in a deeply bandry: and so it is by skilful farmers in our own the roots of plants will penetrate in a deeply bandry: and so it is by skilful farmers in our own the roots of plants will penetrate in a deeply bandry: and so it is by skilful farmers in our own the roots of plants will penetrate in a deeply bandry: and so it is by skilful farmers in our own the roots of plants will penetrate in a deeply bandry: and so it is by skilful farmers in our own the roots of plants will penetrate in a deeply bandry: and so it is by skilful farmers in our own the roots of plants will penetrate in a deeply bandry: and so it is by skilful farmers in our own the roots of plants will penetrate in a deeply bandry and so it is by skilful farmers in our own the roots of plants will penetrate in a deeply bandry and so it is by skilful farmers in our own the roots of plants will penetrate in a deeply bandry and so it is by skilful farmers in our own the roots of plants will penetrate in a deeply bandry and so it is by skilful farmers in our own the roots of plants will be a state of the roots of plants will be a state of the roots of plants will be a state of the roots of the roots of plants will be a state of the roots of the roo

Food of Live Stock—as lying at the foundation of an Improved Agriculture.

I. ON DEEP PLOUGHING AND MANURING.

I. ON DEEP PLOUGHING AND MANURING.

For myself, I entertain no doubt of the utility of leep ploughing; not at once in our lands in general, deep ploughing; not at once in our lands in general, but by an increase of two or three inches at every annual ploughing, until the earth be stirred and pulverised to the deepth of ten or twelve inches. Indian corn, planted in such a mass of loosened earth, would not, I am persuaded, ever suffer by ordinary droughts—that had with him the smallest weight?—"In the esting in of their crops; which the single, deep, and Like a spunge, it would absorb a vast quantity of sential operation of ploughing] well timed, and of a right of corn; and that circumstance is often mentioned as Court of Massachusetts.

Indian dry, whatever may be the method pursued, before to wit. always to bury it up quickly, when carried to the field, to prevent great loss by its exposure to the field, to prevent great loss by its exposure to the field, to prevent great loss by its exposure to the field, to prevent great loss by its exposure to the field, to prevent great loss by its exposure to the field, to prevent great loss by its exposure to the field, to prevent great loss by its exposure to the field, to prevent great loss by its exposure to the field, to prevent great loss by its exposure of manure was lost, not by sinking into the earth below the roots of cultivated plants, but by ricing into the atmosphere, and so fleeting away. Here, also, I have the deep tho of twelve, and even of eighteen, for some peculsation; by the deep tho fivelve, and even of eighteen, for some peculsation; by ricing into the earth below the roots of cultivated plants, but by ricing into the earth below the roots as inches, of cultivated plants, but by ricing into the earth below the roots of cultivated plants, but by ricing into the earth below the roots as inches, and the field, to prevent great loss, in the field

loosened earth. A gentleman, much inclined to agri-country; particularly in the middle states, where cultural inquiries and observations, informed me, near clover, so highly important in the rotation, has, for fifty years ago, that seeing some men digging a well more than thirty years, been rendered wonderfully in a hollow place, planted with Indian corn, then at productive, by the application of plaster of Paris, its full growth, he stopped to examine how far its The most usual course in England has been (exceptroots had descended; and he traced them to the depth ing on stiff clayey soils) first year turnips, manured of nine feet. The soil was an accumulation of rich and kept clean by hoeing; the second year barley, earth, which had run or been thrown into the hollow. with clover seed; the third year the clover mown for At a meeting of the Essex Agricultural Society, at Topsfield, February 21, 1820,

The seed of the common turnip, sown in warm hay; and its second crop, at wheat seed time, ploughtweather, and on a soil sufficiently moist, I have known ed in, and, where necessary to fill the seams, the Voted, That the thanks of the Society be presented to vegetate in about eight-and-forty hours; and in ground harrowed, the wheat sown, and then harrow to the Hon. TIMOTHY PICKERING, for his interesting only four or five days afterwards, I found the plants ed in. This is called "wheat upon a clover lay."—But Address, and that he be requested to furnish a copy had sent down roots to the depth of four or five by the long and frequent repetition of clover, (that is, inches. once in four years) in their rotations, lands in England

1 have often noticed forest trees blown down by vio-became (as they express it) "sick of clover:" and 1

lent winds, whose roots, of the same species, were very have been informed that some lands in our middle differently formed. Such as had grown in grounds states, long subjected to the like application of clover, having a hard, impenetrable pan of clayey gravel, at exhibit like symptoms of disease or failure. But Mr. the depth of twelve or eighteen inches from the surface, Arbuthnot introduced clover once in three years, withexhibited a flat mass of roots; while others, torn up out suffering by such more frequent repetition. "He The Secretary has put into my hands a vote of the from a deep loam, or loamy gravel, showed downward attributed the failure of this plant to shallow and ill-ex-About five months ago, I received from England a his opinion."

Society, requesting me, 'to make to it such communications as may in my opinion most conduce to the interest of Agriculture'.

This was an unlooked-for request. I have myself agriculture and the actual formation of the base and the actual formation of our society is a declaration and the actual formation of our society is a declaration, and the actual formation of our society is a declaration for the means by which the means by which and the actual formation of our society is a declaration and the actual formation of our society is a declaration for the means by which those celebrated British Farmers, Messrs Bakewell, the quantity or weight of dung resulting from the considers the actual formation of our society is a declaration for the means by which those celebrated practicular is of boundless extent; and though tra-carried their agriculture to a perfection unknown be-with straw; This title of Agriculture is of boundless extent; and though tra-carried their agriculture to a perfection unknown be-with straw; and every day presents something new: and every day presents something new: and every day presents something new: and every seal every been accomplished. Every been accomplished. Every been complished. Every been accomplished Every been accomplished Every the substance of the third third the surface, or be buried by the plough? If the off Abuthnot and Ducket; and though tra-carried their agriculture to a perfection unknown be-with straw in six weeks they required nearly six tons versal for some thousands of years by the greater per-fore," that the lecture was written and published—of straw [10] and in that time made 40 tons of dung, equal to that bined, has a complete survey been accomplished. Every surface and the surface, or be buried by the plough? If the off Abuthnot and Ducket has a direct bearing on the quantities, and being finally mixed with their dung latter, at what depth, to produce the greatest effect, with the interests of agriculture. On these there-reliantly the plough? If the off Abuthnot a

Years ago (in the manner suggested in that communi-tle conceives, and I apprehend very justly, that the perhaps at some future time I may find leisure to show cation) supported by the opinions and practices of more dunghills are stirred and turned over, and rotted, the correspondence of facts with his principles. Such eminent agriculturists as Messrs. Arbuthnot and the more of their virtue is lost. It is not a question Ducket. After noticing Arbuthnot's cultivation of of straw merely wetted; but good long dung he esmadder, an article requiring a rich soil and extremely teems more than that quantity of short dung, which deep tillage, Mr. Young says—" there was one circum-time will convert the former to. Two loads of long published in the second volume of the Memoirs of the stance in his management, which, being applicable may become one of short; but the two are much more Philadelphia Society of Agriculture. to more important articles, merits a more durable at-valuable than the one. Without the Trenchingtention: this is, the depth to which he ploughed in the plough, however, his opinion would be different. If dung; his tillage went to that of eighteen inches; and long dung is ploughed in, in the common manner, he conceived there was no danger of losing, by this with lumps and bundles sticking out at many places circumstance, either vegetable or animal manures, as along every furrow, which lets the sun and air into their tendency, contrary to all fossil ones, was not to the rest that seems covered, he thinks, so used, it is sink, but to rise in the atmosphere." Fossil manures mostly lost, or given to the winds: in such a case, are lime, marl, plaster of Paris, and other substances short rotted manure will be better covered, and should On the Cultivation of Potatoes. dug out of the earth, which increase the productive be preferred. But with his plough nothing of this powers of soils.

| Description of the communicated to the Agricultural Society of the County of

Mr. Ducket's manner of applying dung, although a state as gives him a large quantity instead of a small his was a sand farm, was similar to Mr Arbuthnot's. one. The good sense of these observations must be "Immediately connected with the depth of tillage, is obvious at the first blush." Mr. Young, adds—"The that to which dung may be safely denosited. He was a functional of normal days for the state of the that to which dung may be safely deposited. He uses of fursu instead of north dung, is, in my opinion, [Mr. Ducket] had not the least apprehension of losing one of the greatest agricultural discoveries that has been Mr. President, it by deep ploughing; but freely turned it down to two made in the present age." He then states a striking or three times the depth common among his neigh-experiment made by himself—67 small cart loads of ing potatoes, succeeded so well, that I think it would bours." Yet Mr. Young says, that farmers (and good fresh yard dung produced two successive crops of po-not be consistent with that spirit of liberality which we farmers too) persist in a contrary practice. But he tatoes, yielding together 742 bushels: at the same profess to cultivate, was I to withhold the knowledge adds—"Enlightened individuals, thinly scattered, knowltime, the same quantity of yard dung, after six months of it from the Society.

better; having convinced themselves that Mr. Ducket's rotting, yielded 708 bushels, leaving [to the fresh]. On the 28th of May, I began to prepare an acre of practice is not only safe, but beneficial;" and then long dung] a superiority of 34 bushels. But had the ground for late potatoes, the land thin, and the high-names one who "ploughs in his dung as deeply as his fresh dung been kept as long as the other, it would lest on the farm; we hauled 30 horse-cart loads of

(says Mr. Young) in the husbandry of Mr. Ducket, is under which remarkable mildews have otherwise manner; so that with two other showers on the 5th and the use of long, fresh dung, instead of that which in been noticed. One of our countrymen, who wrote a three short restances; though not as many, yet quite comes rotten: and in justice to his memory, I shall volution, has given the only solution of the causes of as large as could be wished for; I wanted to seed the read the short recital of his practice, as I printed it mildews that has ever appeared satisfactory to me; ground with wheat, and they were lifted between the three-and-twenty years ago. "Dependent on the three-and-twenty years ago. "Dependent on the Trench-Plough, is Mr. Ducket's system of dunging.

5 The Trench-Plough of Mr. Ducket's invention has sometimes been effected in this country by a se-of the preceding year.

was so admirably contrived as completely to bury cond plough following in the same furrow after the whatever was intended to be turned in. Mr. Younglirst, and going a few inches deeper.

I have now to appeal to many of my neighbours, who with equal advantages and more experience, have some

FOR THE AMERICAN FARMER.

of New Castle, at a stated meeting held at the Court-House in the town of New Castle, February 20th, 1820, and read to the Society by Thomas Mendenhall, a mem-

practice is not only slote, but beneficial;" and then long dung] a superiority of 34 bushels. But had the ground for late potatoes, the land thin, and the high-names one who "ploughs in his dung as deeply as his fresh dung been kept as long as the other, it wouldest on the farm; we hauled 30 horse-cart loads of ploughs can go, turning it in nine inches, and would bury it twelve, did he stir to such a depth."

Confirmatory of the correctness of the practice of or three times 67 loads of fresh long dung, if kepte dit well, until it became mellow and fine then run these two celebrated English farmers, is the fact stated by Sir John Sinclair, President of the British Board of Agriculture, in his account of the Improved Scottine dung.] "If the crops there the blue skins, being cut, wet, and sprinkled with Husbandry. He mentions one farmer who ridged his fore had been only equal, still the advantage [of the farmer preferred, as a manure, a well prepared compost of peat-moss\* and dung, ten tons, or double cart loads, per English acre. "The dung (or compost) being at the bottom, makes the tap root of the carrot push immediately down, and swell to an enormous size; the roots being often sixteen inches in girt, and 18 or 20 for the carrot ground, and strength of the carrot push immediately down, and swell to an enormous size; the cost being often sixteen inches in girt, and 18 or 20 for the carrot ground, and buried the manure sixteen or seven-fresh dung] would have been most decisive."

To return to Mr. Ducket. His deep ploughing (says Mr. Young) was not practised above once in two of their operations to a degree that merits attention; both rejected fallows; and both ploughed deeply for the planting, say the 5th of June, harrow, this left the ground; the roots being often sixteen inches in girt, and 18 or 20 for their operations to a degree that merits attention; both rejected fallows; and both ploughed deeply for the planting, say the 5th of June, harrowed them the ploughing company to the planting and the planting and

such deep ploughing, seldom given, Mr. Ducket conceived that a due degree of moisture was preserved in his light land, by means of which his crops were floutwo celebrated English Farmers, it may be useful to low; nothing more was done until the 30th of June, ceived that a due degree of moisture was preserved in this account of the successful practices of these risking in seasons of drought which his crops were floutwo celebrated English Farmers, it may be useful to low; nothing more was done until the 30th of June, risking in seasons of drought which destroyed those of subjoin a few observations. I have thought it proper when we ploughed a furrow to them, and gave them a his neighbours: and no one could more severely con-so far to present them in detail, in order to develope dressing with the corn rakes, and hoes; the 17th of demn the ideas which governed the Norfolk farmers, principles: not expecting a precise adoption of their July, harrowed down the middles with a small 7 tooth in leaving what they called their pan unbroken at the practices; which, indeed, without their or similar harrow, this is all the work the potatoes had, or appetent only of four or five inches. The operation of superior ploughs and other implements, would be peared to require; the vines grew remarkably stout ploughing he thought could scarcely be given too sell-impracticable: but with such instruments as we possand healthy, but having had no rain which reached dom, provided when given it was done effectively; and sess or many easily obtain, we can materially in their roots since they came up, the young potatoes he always carried this paucity of tillage as far as cir-crease the depth of our ploughing, and I hope concumstances would permit: thus I have known him put trive effectually to cover our manure. This should be their potability of any crop in all July; they continue seven crops with only four ploughings." In another wholly applied to Tillage Crops; for which the manure number had a part of his lecture, Mr. Young says—"If I were to name ing should be so ample as to insure a succession of and 3rd of August, gave them a start; previous to this, the circumstance which more than any other go-good crops through the whole rotation, without the whole was founded in trench ploughing; and that "The next circumstance which I shall advert to seen in books of husbandry, as from the circumstances potatoes to mending and growing in a most admirable

that owing to their rapid growth, and not being left • In Scotland, their peat lands are called peat-mosses. says he saw him turn down a crop of rye, six feet a sufficient time in the ground to mature and harden, high, so that not an atom was left visible; and yet the they are not quite so dry, nor do I expect they will depth did not exceed eight inches. Trench-ploughing keep as well in the latter part of the season, as those

FOR THE AMERICAN FARMER.

No. L.

THE ORIGIN OF THE

### COTTON CULTURE

OF THE UNITED STATES,

As a Planter's Crop, and the employment of that producnufactures.

ed to the office of Attorney General. One of his daugh. 1798 and 1799.\$ But it was found, that we could raise Malta, where no rain italis from spring to auters, who left Talbot in her eighth year, married about more cotton than we could prick and separate by hand the training the properties of the country. The capacity of the seed.—Rollers, or cotton gins, were imported to the rehidren, distinctly mentioned her own for invented.—In a short time the invaluable water mill considered till the year 1786, in mor of connecticut. This machine working ordinarity the mind of one of her sons, the writer of this paper. At the middle and northern states, as the recent in dulgences in credit and enterprises, and the excessive conton-wool, which was before restrained by the incaquantity of tonnage have principally produced) distress-pacity to separate it from the seeds. The rapidity of ed our scaport towns. It was considered, that agricult-reading out wheat, in the manner of Maryland, instead ture could not afford direct relief to those, who resided and remained in the towns, and that commerce, the principal subject of the oppression of the times, wasson of advantage, in the use of Whitney's Water Cotthe object to be aided, and could give the relief of its ion Saw Gin, in lieu of the fingers and thumbs of labour-own diseases required. It followed, from the consider-, est, their wives and their capable children. These two dates are considered from American manufactures encountry to produce cotton: and, Secondly, the international industry, that a principal hope facts; First, the advertance to the capacity of our south of relief was to be derived from American manufactures are country to produce cotton: and, Secondly, the internations of his faculties and considering the facts country, ever experienced by any people, ancient or his mind in relation to the internal economy of our modern, and the inventions, principally in England, but a full produce cotton in so high a latity of increasing expectation and confided conviction, t ed south, through lower Maryland, Virginia, the Carolimanufacture of cotton, was submitted to him in the nas, and Georgia, to our boundary on St. Mary's river, spring of that year, in manuscript, and afterwards was and the 31st degree of north latitude. Among other sent to him in print, and produced the letter from means, the opportunity to examine this opinion was used which the following is an extract:

at the convention at Annapolis, of 1786. The late preat the convention at Annapolis, of 1786. The late president Madison, was (as was the writer of this paper for Pennsylvania) a member of that body for Virginia. His ample opportunities in a state south of Maryland, his natural strength of mind, and habitual observation, reflection and correctness, with distinguished public spirit, occasioned a full exposition of facts, impressions, and expectations to his consideration in an unreserved. conversion.† The result was, the decided admission by Mr. Madison, that from the garden practice in Tal-

litical Inquiries," and in another before a new manufac-monstrated. turing society at Philadelphia, of the year 1787; which were, by both bodies, ordered to be published # The most promising circumstance attending cotton, was its faculty to be carded, and spun, by water machinery, and as was imperfectly done, wove also by the same means.

A mission to Great Britain to obtain the machinery, under a contract existing, and at the expense of the writer was adopted. Certainty and detailed information Monticello, May 16, 1820.

Were obtained by the expensive prosecution of this and San Law pot able to give you any certain tion in Foreign Commerce, Domestic Trade, and Mation in Foreign Commerce, Domestic Trade, and Manufactures.

It is a fact, well authenticated to the writer of this paper, that the cultivation of cotton, on the garden scale—lected encouragement, as to the practicability of rais-though not at all as a planter's crop,—was intimately ing cotton crops, was first received in a letter from known and familiarly practised, even among the childenten of the white and black families, in the vicinity of the of Chesapeake Bay, so early as the year 1736.—That officio, patron of the scienty. This fact of the first reportable agricultural county. This fact in ord that respectable agricultural county. This fact philadelphia, in 1787, sometime after appeared in a in regard to cotton, was known in Philadelphia, through the family of the first Tench Frances, Esquire, who was one of the commissioners of the Maryland proprietary foreign cotton of three cents, per pound; Congress be suppose it to be the local, and especially the in the treaty of boundary with the descendants of William Penn, the proprietaries of Pennsylvania. After and the respectable was appoint. Sand among many matters of useful domestic in. From the seed; but, done at length with these things, and more disposed to retire from one disposed to retire from one of the white and black families, in the vicinity of the first respectable, appropriate the proprietaries of the county of Talbot, on the Eastern Shore sident Thomas Millin of Philadelphia, in 1787, sometime after appeared in a letter from the original proprietary in the family of the first Tench Frances, Esquire, who was one of the commissioners of the Maryland proprietary of the commissioners of the first reformance of the commissioners of the first reformance of the commissioners of the first reformance of the commissioners of

" I shall communicate the contents of your memoir,

"Tench Coxe, Esquire.
"Philadelphia."

almost, and others entirely failed in raising potatoes bot, and the circumstances of the same kind, abound-been most curiously perfected within the last ten in the usual mode last year, whether the process ling in Virginia, there was no reason to doubt, that the years, have given a stability, utility, extension, and agadopted, may not have been the only cause of my suc-United States would one day become "a great cotton gregate value to the cotton crops of the United States, producing country." The agitation of the subject, was which cannot be equalled by any other production, in commenced in the public prints of Philadelphia, and in exportable surplus, or for home manufacture, and fathe periodical works. Our promising capacity was no-voured, the whole industry of this country in all its ticed in a discourse read before "The Society for Po-branches, and in every section, as may be clearly de-

COLUMBIANUS.

# More of the Italian Clover.

SIR-I am not able to give you any certain produce cotton to supply ourselves and the world, so we information of the Lupinella. Mr. Appleton,

JOSIAH QUINCEY.

DEAR SIR,—The clover you sent me this as I find favourable opportunities. I well remember the conversation, to which it refers, and have occalished in justice to your patriotic forest. For myself, I had no merit unless it be the comparative one, of not slighting useful truths because they were new, &c. &c.

The clover you sent me this morning, appears to be of the kind denominated Crimson Trefoil, (trifolium incarnatum of Linnæus.) It grows in Italy, France, &c. I have a wild specimen from Switzerland.—Docton to Sibthorp, we are told found it abundant on the converse opening of the standard opening in the clover you sent me this morning, appears to be of the kind denominated Crimson Trefoil, (trifolium incarnatum of Linnæus.) It grows in Italy, France, &c. I have a wild specimen from Switzerland.—Docton to the kind denominated Crimson Trefoil, (trifolium incarnatum of Linnæus.) Mount Atlas.

\* The Western states were all then unborn; the Louisiana purchase was not accomplished till 1803.

† This subject having grown into great importance in 1817, a memoir on the cultivation, commerce, and cotton.

\* Philadelphia."

† See copies of both papers, Cary's Museum, page stated to be the earliest of all kinds of feed—bears drought well, is more acceptable to cattle than the common clover, and its product is in 1817, a memoir on the cultivation, commerce, and cotton.

J. BIGELOW.

bushel of good seed fully sufficient for an acre. ferent.

I enclose a drawing of the Trifolium Incarnatum and Saint-foin, from memory.
Yours respectfully,

J. S. SKINNER, Esq.

who has sent barrels of the Lupinella into the which it operated. a hoe cultivation and letting the other struggle for itself.

\*When Secretary of State. NOTE:

We have compared the seed of the clover imported by Mr Hands, and which to avoid confusion, we con-tinue to call Italian clover, with the seed brought by captain Ballard from Italy, and which he says, is there called Lupinella-and we find them to be entirely unlike. The Italian clover seed resembles very not what is called a saline atmosphere, (if soils, rather than from any effect produced by much and is not larger, if so large, as our common such atmosphere exists at all) nor yet the immethe atmosphere. From the head of tide water

be cut but once. In France, it is sown in the red clover seed. The Lupinella seed, so called by diate vicinity of salt waters, surrounding penbe cut but once. In France, it is sown in the red clover seed. The Lupinella seed, so called by diate vicinity of sait waters, surrounding penspring to be cut in summer, and in the fall to be capt. Ballard, is large, rough and prickly; on removing this rough husk with a pen knife, it is found to contain a kidney shaped kernel, much larger and the space occupied by the waters around them, which prevent the complete powerful and benewhole of our present view of the case then, we should darker coloured than the common clover. On the whole of our present view of the case then, we should say that Lupinella, is the Italian provincial name for are witnesses, and have here given the sanction that the common clover. Hon. Josiah Quincey.

See Cours D'Agriculture in the Atheneum, of conclusion that Lupinella, and Saint-foin are the same, there is some difficulty—for in the "TREATISE ON AGRICULTURE"—said to have been written by general Armstrong—he says, (see American Farmer, vol. L page 172.) "The ameliorating quality of the colour, than possessed by the adjacent herbage "tap rooted plants, is supposed to be in proportion to on a piece of land, forming a part of the margin "their natural duration; annual clover, (Lupinella, Curing Farm, May 10, 1820.

The stalks of the beautiful plant, received from Doctor Anderson of Chestertown, is from your description of it, the crimson trefoil of "nual clover, the author agrees with the experience has been heretofore imagined, by some—here is and by some of us repeated examination to the was nothing more than Saint-foin are the sait to make any saint-foin are the sait to make any saint-foin are the sait to have been written by general Armstrong—he says, (see American Farmer, and herb, and also by giving a stronger green to only of clover, but of every species of grass and herb, and also by giving a stronger green to only of clover, then possessed by the adjacent herbage "tap rooted plants, is supposed to be in proportion to on a piece of land, forming a part of the margin of a salt-water creek, two miles from the junction of Jt. Mary's, St. George's and Potomac "La) has less of this property than biennial, (Dutch "clover) biennial less than Saint-foin; and Saint-foin of Jt. Mary's, St. George's and Potomac "La) has less of this property than biennial, (Dutch "clover) biennial less than Saint-foin; and Saint-foin of Jt. Mary's, St. George's and Potomac "La) has less of this property than biennial, (Dutch "clover) biennial less than Saint-foin; and Saint-foin of Jt. Mary's, St. George's and Potomac "La) has less of this property than biennial, (Dutch "clover) biennial less than Saint-foin in the word Lupinella and any pour description of it, the crimson trefoil of "La property than bienni your description of it, the crimson trefoil of nual clover, the author agrees with the experience has been heretofore imagined, by some-here is

your description of it, the crimson trefoil of Italy. The information which you have had of Captain Ballard, giving it the name of Lupinella is erroneous. This plant is an annual, and is cultivated in gardens for its handsome indigenous or have been a long time cultivated flowers. The Saint-foin, well known in this amongst us—for example—if we mistake not, our country, and a favorite grass of the French, is the Lupinella of the Italians.

I have observed your note to my communication, recommending the Cultivation of the Orchard Grass. You ask, "what I mean by thick sowing, a gallon or a bushel?" I consider a sound of the other Herd's grass, which are essentially different.

I consider a grass with the experience has been heretofore imagined, by some—here is a spot of land located under all the circumstanting application, the names of imported grasses, as to those which are cultivated grasses, is the entire and equal beneating effects, to the entire and equa Edit. Am. Far.

FOR THE AMERICAN FARMER.

From a Delaware Correspondent.

THE FAIR TRIAL AND EFFECTS OF Plaster of Paris,

FOR THE AMERICAN FARMER. Another Proof.

that plant which in France is called Saint-foin. We of our names after a careful, minute and patient, are satisfied that the Lupinella sent to Mr. Crawford, and by some of us repeated examination to the

a level, with a small inclination in one half of it to the north; from which half where the level inclines, the rain passes off easily and quickly; the other half is more flat, retentive, and cold. The elevation is about eighteen feet above the level of the water in the creek. The compound In the numbers of your paper, I see several of the soil is in both halves throughout nearly P. S. I have put the Saint-foin along side advertisements of seeds for sale, most of which the same, being a white oak loam, a good wheat of the Crimson Trefoil, to point out to you the are practically unknown to us. Perhaps many soil about a fourth part clay. The substratum difference between the two plants. There is a of them would be tried, and I should be glad to about 12 inches below the surface contains a great difference in the seed (of the two plants.) see in future advertisements, the prices, with greater proportion of clay. On the half of this The trefoil is a little larger than the common the quantities necessary per acre.

Clover seed. The Saint-foin, Esparatte, or Lupinella, is contained within a husk, (like a bean unfortunately, plaster, according to theory, will ral corn rows, the effect of the plaster was when shelled)—the covering is prickly, and not act on our lands. Yet, in some cases, I well defined, easily observable at a distance of a brown colour. I venture to say the have read that it has had effect in such situations, and might be traced on one side by the furrow, seed Doctor Anderson has saved, has no re-I should be pleased, if any of your correspon-and on the other side by the middle of the corn semblance to the Lupinella seed, brought in dents have knowledge of any such cases, if they ridge, shewing a superior growth of the herbage by captain Ballard-or that sent into the coun-would describe the soil, situation as regards salt in general, and a striking difference in the try by Mr. Appleton, our Consul at Leghorn-rivers, and other circumstances on and under deep green colour, than that of the side long herbage. On the other half of this plastered country. The Secretary of the Treasury, (Mr. Crowford,\*) has distributed quantities of the seed. Pray with what prospect of success? Be we offer to our respected correspondent, the following interesting and authentic paper. The facts it distributed flat, and by reason of its surface and assured, it may answer for the sandy land, on closes are important and valuable—as they go to shew not of its greater proportion, clay is more tenather road to Annapolis—but to sow the Lupi-that under certain circumstances. Pleater these sections and colds the same number of strides in land, of about the same number of strides in length, where the ground had no inclination, but is quite flat, and by reason of its surface and the road to Annapolis—but to sow the Lupi-that under certain circumstances. the road to Annapolis—but to sow the Luftithat under certain circumstances, plaster does act cious and cold; the plaster appears not to have
nella in good soil, will be useless, and a shameful with great effect on the margin of Salt Water Rivers
waste of labour and ground, our blue grass
—contract that under certain circumstances, plaster does act cious and cold; the plaster appears not to have
nella in good soil, will be useless, and a shameful with great effect on the margin of Salt Water Rivers
produced an effect or difference in the growth and
waste of labour and ground, our blue grass
—contract the general impression, and to experience
will afford a better cut, giving the Saint-foin

THE FAIR TRIAL AND EFFECTS OF of this land, which has an inclined surface, and not on the other half, which is the same kind of soil, without perceptible difference in any of MARGIN OF A SALT WATER RIVER its proportions and differing only in surface, which causes the water to lay longer on it. It seems reasonable to infer that the unfavourable disposition, which has heretofore been found to exist towards plaster in lands near salt water, We add another proof to the many, that it is arises from the general face, and level of those

now noticed, and several other instances, in employed in guiding the plough. which plaster has acted beneficially on slopes, A writer always wishes to know whom he is 15 or 20 hours, and to be stirred often.—Put it which within these two or three years have been addressing. What may be suited to readers in then in stone jugs about three-fourths full, cork observed in this part of the country, seem to one place, would be improper in another. For them well, and place them in a cool situation. confirm the opinion that the tenacity of level instance; I wish to give my thoughts to a Your jugs ought to be of such a size as only to land, produced by a redundancy of water, is the southern public on road laws, and the construction contain yeast for the usual quantity of bread cause of many failures of plaster to benefit these tion of roads. A northern audience would not baked at a time. One gill of yeast is sufficient kind of lands, and induce a confident belief, listen to me with patience upon a subject, which for a common sized loaf of bread, that is made that where the surface of these salt water river-the state of improvement among them has de-from a plate full of flour. side lands has sufficient inclination, or can by prived of interest; and I do not know, that I complete draining, be rendered open and fria-should find southern readers enough to justify ble, which is easily effected, the lands here the intrusion. A list of subscribers seems, therein these situations, are as favourable to the operation of plaster of Paris, as any in the inte-

bought in Balt. of Stevenson & \_\_\_\_, and was applied the spring of 1819, and we examined the effect in May, 1820. In the same field of Mr. Hebb, there are two other places where he has thrown plaster on the surface, (all on a clover lay following wheat) where the effect is as That will set under water, and, in a few years, plainly, and accurately observable as in the one above more particularly described.

JAS. HEBB. WILL. GUYTHER. ARCHD. BINNY.

still plain, than it was during the dry weather preceding. May not the summer be a better season to sow plaster than the spring?

About a bushel of these materials is put into occur to present recollection.

About a bushel of these materials is put into occur to present recollection.

Sufficient to slack the lime. Another bushel is then heated in the season to sow plaster than the spring? on the plastered land, and that adjacent though its weight in lime dust.

#### TO CORRESPONDENTS.

[We can see no reason, on reflection, to relinquish the desire, which we have before expressed, that those who favour this journal with their thoughts or experience in the affairs of which it treats, would sign their cubic feet, is two thirds filled with the cement real names to their communications, especially when in the above state; and with a small iron pesthey give facts or go into details. It cannot full to in.

#### Raleigh, March 20th, 1820.

should along with your index to the first volume, of the evaporation, as no more water is to enter or subsequently in the body of the work, publish a list of the names of your subscribers.\*

A real name is necessary to give authority to facts stated, and what is more, the mind of the mortar; and is found to possess the singular 14. Neat's foot oil.

the ocean, the land gradually descends, and tation and a name, an advantage which an ano-from the most rapid current. near the mouths of these rivers, particularly the nymous publication can never possess. Writers largest of them, and those which disembogue on agriculture, medicine, &c. are not subjected nearest the ocean, the land presents tables of to the critical ordeal that awaits political wranflat land inclining as they approach the water, glers, and poets. Respect invariably attends or the stream and valleys which lead to it. On them. Even the want of polish in the language boiled together about three hours in brass or these levels, adjacent to salt water, it is that of agricultural essays, often gains them addi-bell metal;—strain then off from hops, and at plaster of Paris has often heretofore been found tional respect from the probability, that the hand once stir in a quart of flour. When cool stir ineffectual, in promoting vegetation. The fact which now wields the pen is more frequently in a pint of good yeast, and a half pound

CALVIN JONES.

J. S. SKINNER, Esq.

# To Make a Cement,

become harder than stone.

Lime stone, of a deep blue colour, is to be procured, and pit coal to burn it with, in the commo. manner.

then heated in the same way, and so on until the vessel is filled. In this state it can be kept

real names to their communications, especially when in the above state; and with a small from pesthey give facts or go into details. It cannot fail to increase the public confidence in what is stated; but we cannot so well convey our own impressions in any other way, as by the following suggestions from Doctor Jones, of this time it becomes of the consistence of soft mortar, and is then laid in the shade, from three to six days, according to the dryness of the air. When sufficiently dry, it is again beaten half an Dear Sin,—I beg leave to suggest two hints, which I think of some importance to the useful-ness of your Journal:—One is, that correspondents should give their real names with their sistence of a smooth uniform paste. After this communications; and the other is, that you period, it is apt to become refractory on account should along with your index to the formula along with your index to the control of the evaporation, as no more water in the period of the evaporation as no more water in the period of the evaporation as no more water in the period of the evaporation as no more water in the period of the evaporation as no more water in the period of the evaporation as no more water in the period of the evaporation as no more water in the period of the evaporation are in general sufficient to reduce it to the condents the period of the evaporation are in general sufficient to reduce it to the condents the period of the evaporation are in general sufficient to reduce it to the condents the period of the evaporation are not the period of the evaporation are not period of the evaporation

reader is fixed upon the essay, and goes along advantage of uniting, in a few minutes, so firmly to the bricks or stone, that still water to the bricks or stone, the bricks or stone, the bricks or stone to the bricks or stone. Edit. Am. Far. out any inconvenience; and, by keeping it dry arts, who are in the practice of making, prepar-

on the rivers, which fall into the Chesapeake or with the subject, if the writer has a local habi-for a single day, it has afterwards nothing to fear

#### RECEIPT TO MAKE YEAST.

Three gallons water, two quarts loose hops, brown sugar, to remain open in a piggin or jar

#### FOR PRESERVING EGGS.

In March put about half a pound of quick lime in a stone or earthen pot, and add a gallon of cold water; -next day fill the pot with new hints as you think proper, being assured in either eggs, tie a paper over it, and put the pot in a case of the good wishes and continued regard of cool place.—The eggs will be found perfectly good after being kept a year.

It is quite necessary to keep lime in the walks of your hens, as it causes their laying eggs

throughout the winter.

FOR THE AMERICAN FARMER.

# Farmers & Planter's Oils.

This valuable and useful list of profitable When the lime is withdrawn from the kiln, fabrications of the cultivators of the United N. B. The difference in the colour of the herbage, was less after two or three rainy days its weight in lime dust.

- 2. Rapeseed, ditto.
- 3. Oil of olives, worth to France 75,000,000 livres per annum.
- 4. Oil of Sunflowers, which may be expressed
- 5. Oil of Sessamum orientale, or Benny, which is produced and made into oil in South Carolina, from seed, brought from Africa. It grows in Hindoostan. The oil is fine for salad, and used after pressing, to boil with vegetables, and for cattle. See Doctor J. Mease's account of it in his Archives.
- 6. Butter.
- 7. Cheese.
- 8. The lard of Hogs.
- 9. Tallow.
- 10. Suet.
- 11. Common offal and house fat.
- 12. Bees' wax, yellow and bleached.

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ing, managing, or producing any of these oils in a new or improved manner, would promote counties, and states, which have not and know to accuracy as to quantity.

the comfort and wealth of the country by their not the hominy mortar. It is plain, that the

#### FOR THE AMERICAN FARMER.

#### THE PREPARATION OF FIRMITY.

The consumption of our crops, the health of our people, the facility of general comfort, and the substitution of vegetable food for a part of our animal food, are all involved in the more general use of that ancient aliment, called Firmity. It is made of Wheat. To some constitutions, it is more favourable than barley of tutions, it is more favourable than barley or rice, or leavened, or unleavened bread. The object of this paper is to draw forth from some family of good livers, a publication of the whole process of making Firmity. It should point process of making Firmity. It should point out the most suitable kind of wheat, whether it should be white or red, summer or winter wheat; whether old and dry grain or new, undried or unhardened; what is the shape, length and diameter of the wooden firmity mortar: what its excavations at each end, in width at MR. SKINNERtop and bottom, their form, and method of making out: how bound with iron, and in what Farmer, vol. 1, page 286 and 287, on the effects he was taken with a violent cough, of which he parts or places; how seasoned, as wood; how of Hemlock, (Cicuta Maculata) brought to my preserved; what the kind, form, and materials mid the following case. If you think it worthy medies, and is at this time a healthy man. of the pestles, wooden or iron, common and publishing you can do so. best; how heavy; how long; how used; in In the month of March, 1817, about nine was soon relieved by the emetic tartar.

What quantity the wheat should be put into the o'clock P. M. I received a note from a friend I have since that time examined the mortar, and whether wet or dry; if dry, when requesting me to visit a servant of his, who he and how to be wet at first, and from time to suspected was poisoned; on arriving he related lata growing there, which leaves but little doubt time; how to be beaten or pounded, and how the following particulars :long; how ridden of its coat or chaff, or hull or skin; how sifted; the form, size, kind and materials of the sieve; the manner of preserving before, he had some celery plants set; about 2 the skinned or hulled wheat; how long it will o'clock, this man (25 years of age) dug up some keep; in what fit places; how much of this roots which he supposed were the remains of wheat should be put in for a mess for a family the celery, and ate heartily of them, giving of some specified number of persons, young and some to another man working with him, of adult: how and in what mode it should be boil-which the latter ate a little. About dark he was ed as a first preparation of it; how long; in found lying on the ground in convulsions; and what quantity of water to a quart of hulled that the fits had continued until this time (11 wheat; by what heat or strength of fire; after o'clock,) he had been bled and taken six grains "through the medium of your paper, the name the preparatory boiling, in what one or more of emetic tartar, without producing any effect." and history of the splendid star, which is so forms it is to be prepared; with what additions on entering the house where the man was, I "conspicious in the west—sets nearly N. W." of water, milk, sugar, &c.; with cold milk or found him supported in the arms of another, to ANSWER. hot milk, frying, &c.; what are its effects and keep him from being suffocated with phlem, characters as food or diet, in hot weather or which was constantly discharging from his nose the west, during the evening, and sets about cold; in the sickness and health of the con-and mouth-his pulse very tense and irregular forty-five minutes past ten, is Venus, Hesperus, sumers; the worth of the hulled, skinned, -his eyes wide open and the pupils much di-or the Evening Star. It is the second planet cleaned, and sifted wheat, freed of its husk or lated-the convulsions somewhat abated in force in the solar system, reckoning from the sun, hull, and common wheat threshed and fanned of though not in frequency. its chaff and dust.

chine to take off the black shell or skin of the out a miller's machinery for preparing wheat effect to throw off the offending matter. the manufacture of its oil. The hominy and dried, in or out of a kiln, put up in half barrels, believed could produce a good effect; and firmity mortar and pestle might be tried, wet-and sent like rice for sale to Baltimore, Philadeath seemed rapidly approaching. ting the cotton seed as we moisten Indian corn, delphia, New York, or Washington. In the and wheat before the operation of skinning. is one of the best orders of the day, that to save boiling water on the skin; his clothes were ac-20 per cent, upon our whole personal or family cordingly taken off, and the hot water poured

TO THE EDITOR OF THE AMERICAN FARMER.

Sussex County, Firg. May 17, 1820.

The directions should be prepared for towns, cine, remedies were given with but little regard

communications. The single object of vegeta-directions for such places, will also serve those, use of some stronger emetic, the arm was not ble oils (before they were made into soap, &c.) who have and use the hominy mortar and pestyed up, or any notice taken of the quantity of in France, in 1789, was worth more than all the. Even the improvement of the hominy mor-blood lost. He was then given about twenty our surplus productions which were export-tar is an object of importance. In these times grains of sulphat of zine, which produced no ed in that year. It has been observed, that of skill, the improvement of every thing is effect. He was then given fifteen or twenty milch cows fatten, grow soft in their coats, and made by art or science; and we know, that grains of sulphat of copper-this likewise proyield rich milk, when helped by cotton seed, there is reason even in the roasting of eggs !duced no effect-several other remedies were The oil therein is the principal cause. A ma- What would prevent an Oliver Evans making made use of, but without producing the slightest cotton seed, would be an invention of use in for firmity, and Indian corn for hominy, to bery remedy had now been made use of, which I

and mode of preparing, and cooking firmity, idea immediately occurred, if a translation of from the common state of clean, proper wheat, excitement could be produced, to a less vital to the soup dish or tureen, would be highly ac part than the stomach, an advantage might be ceptable, to good domestic economists. Let it gained thereby. This idea was no sooner conbe remembered, in these times, when economy ceived, than I determined to make trial of the several large blisters were put on the extremities; he lay in a comatos state the balance of the

The next morning I found him labouring under considerable stupor, and great debility; I gave some castor oil to carry off the offending matter, and directed mucilaginous drink given

The man that had taken but little of the root,

I have since that time examined the meadow and found large quantities of the Cicuta Macuof its being that, by which he was poisoned.

I am, sir, yours, respectfully, WILLIAM J. COCKE.

# Occasional Extracts to the EDITOR.

#### A BRILLIANT STAR.

" Pray use your best industry, to give us

That resplendent Star which now appears in and is nearly nine-sixty millions of miles from Believing it a case beyond the power of medi-that luminary: its diameter is 7640 miles; it

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revolves round its axis in 23 hours and 20 min-dose of physic. The blood which has been stable for exercise or work. In summer the utes, and completes its revolution around the drawn, when coagulated, will be found to have only use of clothing is to protect him from flies gation, or distance from the sun (48°) and will cessary to carry the bleeding so far as in the smooth. The bladder should be large enough junction. Passing then to the west of the sun ry degree of chill it is adviseable to take off dyne, and nourishing. For the first purpose it will rise in the morning before him, and be the fore shoes, pare the soles, and wrap up the take a gallon of warm water, with from half a *Phosphorus*, or the Morning Star. Since Ve-feet in large bran poultices for the purpose pound to a pound of common salt, dissolved in nus like all the other planets, shine only by the of keeping them moist. The last case of gene-it, to which add four or five ounces of olive or reflected light of the sun, and as it passes be ral chill that came under my care was of a very linseed oil for the second, take two drachms of tween the sun and the earth, it exhibits all the severe kind, and considered highly dangerous; solid opium; dissolve them, or rather mix them phases of the moon, when observed through a one gallon of blood had been taken off two well with about a half a pint of warm water and telescope: at present it has the appearance of hours before I saw the horse; five quarts more add from a quart to three pints of fine oatmeal or the moon at the beginning of her second quar-were then taken; as the symtoms had not aba-wheat flour gruel. For the third purpose, rich ter .- About the end of this month, Venus will ted above four or five hours afterward, two broths, wheat flour gruel, and other nourishing be in the position when her light to the earth, quarts more were drawn, which caused faint-fluids are recommended. With respect to the is the greatest possible, and by, a good eye, ness; no physic was given, as the bowels were first kind of clyster, it may be observed that in a clear day, may then be seen when the sun open, but a ball of one ounce of nitre, one dram gruel is commonly preferred to warm water;

olent exercise, or fatigued by a long journey, plaint. and in this state plunged into a river (a very CHYLE. The nutritious or essential parts of WITH SOME REMARKS ON THE MANAGEMENT OF with great difficulty that he is led out for exam-ses into a large vein near the heart. ination. The breathing is generally quickened, which may be seen by the flanks and nosgenerally obtains among grooms, of keeping have formed on the subject, I will give you a
trils: the pulse is often very quick, and the

sun in 225 days. As the earth is travelling in a thick coat of buff or size on it; from this ap- and dust, and for this purpose a thin sheet of the same direction so as to complete its annual pearance we may be assured, that if the pulse calico is quite sufficient. circuit in 3651 days-it happens that Venus does not become slower, the breathing more CLYSTERS or GLYSTERS. A liquid preparadoes not return to the same situation in the easy, and the eye less red in a few hours, the tion forced into the horses bowels by means of Heavens, as seen from the earth, till the end of bleeding ought to be repeated. When the mus-a pewter tube, with a bladder tied at one of 583 days or one year, seven months, and twelve cles of the loins are affected, a fresh sheep's or its ends. Large syringes are sometimes used days. It will therefore have the same situation lamb's skin should be placed on them, the flesh for this purpose, but a bladder and pipe are by about the end of the year 1821, that it has at side under. In the partial chill the same treat-far the best contrivance. The tube should not present. It is now at its greatest Eastern elon-ment is proper though it may not be found ne-be less than a foot in length, and perfectly

appear to come nearer him every evening, until former case. When the foot alone is affected, to contain five or six quarts.

the beginning of August, when it will be in con-bleeding and purging are proper; and in eveand a half of camphor. A lamb's skin was but according to my experience the latter does thrown over the loins. The next morn-just as well as the former. As to the second, ing the horse was considerably better, and re-tincture of opium may be substituted for solid Further extracts from an approved English covered contrary to the expectation of the pro-opium, and is by some preferred to it, but the

chilled, he must of course require medicines of a stimulating or heating nature. This disease appears to resemble the acute rheumatism of the human body, and is perhaps precisely of the same nature. It is either general or local, and always accompanied with more or less of the property of the same nature. This disease of the human body, and is perhaps precisely of the same nature. It is either general or local, and always accompanied with more or less of thus inflammation of the lungs and fever are fever. When a horse has been heated by an acute diseases, broken wind is a chronic contradistinction to the term acute, which implies a sharp ed. This is particularly necessary when the anodyne clyster is employed. The pipe must be oiled or greased before it is introduced; and if its passage be obstructed by hard dung lodged in the gut, the hand should be gradually introduced in order to remove it. fever. When a horse has been heated by vi-acute diseases, broken wind is a chronic com-

common practice among post-boys, or tied up the food, separated from the mass by digestion, in a current of air and washed with cold water, and absorbed by certain vesels named Lacor suffered to stand in cold wind or rain, he will teals, the mouths of which cover the inside of be found after being in the stable a few hours al-the small intestines; by these vessels the chyle DEAR SIR.—Since writing my letter of the

membrances of the eye unusually red. Some no difference in the warmth of the clothes observation and experience. times the foreparts only are affected, at others whatever the season of the year or state of the I agree with Mr. Harden, that the preference the muscles of the loins and hind legs, and weather may be. In a good stable it is probable given to a south-easterly aspect in England, sometimes it appears to be confined to the fore that, even in winter, it may advantageously be arises much from their moist and cloudy atmosfeet; this last is generally produced by very dispensed with; as the horse will be much less phere, and likewise from their high northern severe and cruelly unfair travelling or hunting liable to take cold when he happens to stand latitude, which would prevent the apple posand cooling the feet suddenly. And in some still in a cold easterly wind or rain, which must sessing any fine flavour, unless cultivated in instances the inflammation has been so violent, often be the case with hunters. but when he situations favourably exposed. These remarks that suppuration has followed, and the hoof has has been long occustomed to such clothing, apply to our own country, in proportion to our

work on the management of horses and the prietor. I forgot to notice, that the fore shoes quantity should not exceed two ounces, on ac-CHILL or founder. This is a term not to be found I believe in any book of veterinary medicine or farriery, though often used by grooms and farriers. It is a disease of importance; and has been often injudiciously treated, from a mistaken notion, that if a horse has been often to the found in the feet poulticed; the count of the spirit in which this opium is dissolved. The third kind of clyster is required were already too thin. For some further obody only in locked jaw, or in diseases of the throat which prevent swallowing; and in these its utility seems to be very questionable. As soon as the clyster has been injected, the tail should be kept close to the fundament for a few minutes, to prevent its being too hastily return-chilled, he must of course require medicines of the form of the spirit in which this opium is dissolved. The third kind of clyster is required which prevent swallowing; and in these its utility seems to be very questionable. As soon as the clyster has been injected, the tail should be kept close to the fundament for a few minutes, to prevent its being too hastily return-chilled, he must of course require medicines of the foot. treatment of the diseases, continued from were taken off and the feet poulticed; the count of the spirit in which this opium is dis-

ON THE PROPER EXPOSURE,

# Apple & Peach Orchards.

Burlington, May 11th, 1820.

most incapable of moving, and sometimes it is conveyed to the thoracic duct, whence it pas-7th, I have seen Mr. Harden's letter on the proper exposure of orchards, and as you express

separated from the sensible foot. (See Foot.) there would be danger in a sudden change distance from the equator. From my own obline that severe kind of Chill first described, When a horse is moulting, or shedding his servation on the orchards of Nova Scotia, and bleed to the extent of five or six quarts, and coat, clothing is certainly useful; and then he New England, they have been fully confirmed, unless the bowels are open or loose, give, a mild requires the greatest care when taken out of the I have never considered our orchards as more

southern states; I am inclined to believe the act, to reckon for struck measure, the feet X. 0.8. risk of injury is less with us. I recollect the snow on the 8th of May, 1803, with several frosty nights from the 4th to the 11th, making ice 1 of an inch in thickness, yet my fruit was all safe; I made a particular record of the fact. I have which is but about one per cent. short.

But to multi-cts.—Eess, 122 cts.—LARB, per quarter, 50 to 67 to 10 t year; whatever may have been the degree of cold, excepting last year, when they did not bloom-the blossom buds being killed in a prematurely advanced state, brought on by a series of mild weather in January, 1819. The high character of the Newark Harrison Apple, is, I believe, ascribed by all connoiseurs to the favourable aspect of the great orchards of this fruit, on the south side of the Orange Mountain near that town. The influence of the southeast aspect is not confined to the spring, it is probably still more operative in ripening the fruit in the autumn. In the preference I have had principally in view fruit liquor orchards, in the middle states; I still retain that preference, so far as respects apple orchards, which require autumnal warmth and dryness, as the days grow shorter to ripen the fruit. With regard cessary, since the author himself has arranged his regressive under the figure heads to show them Mr. Pickering's Discourse before the Essex Agricultural Pickering's Discourse before the Essex Agricultural reflections, plain, sound, and practical; every suggestion possessing its intrinsic value. The whole of it should have been given in one paper, but that is not negrow shorter to ripen the fruit. With regard cessary, since the author himself has arranged his restricted to the state of the st to peaches, which ripen in hot weather, long decitions under different heads, well defined—thereby days and warm nights, and which are disposed from their being natives of warm climates to blossom earlier; they ought to be planted in si-Grain—III. On Live Stock. tuations calculated to check, rather than encourage an early bloom; I have tried with great success a northern aspect, and even the north side of a building for apricots, the tenderest and summoned by Gov. CLINTON, the President of the earliest of our fruits. The northern situation Board, to meet at Utica, on the 20th of May, for the of the rising and setting sun, is sufficient to purpose of prosecuting this vast work. The middle impart to them a large portion of heat in the section (ninety-six miles) is finished, and great progress long days of summer; while the blossoming is it is probable that 50 miles more will be completed this retarded by the greater shelter afforded by the season. position of the sun in the spring.

ence of thaw, in the extraction of frost from the Hudson. blossoms and ripe fruit, I believe to be correct. A most interesting communication is contained in the transactions of the London Horticultural Society, proving the uniform benefit of watering plentifully the frozen limbs of trees before sunrise. I have this year kept the exquisitely rated a Company, for the purposes of draining flavoured St. Germaine Pear in high perfection, ditching, embanking, and cultivating the SALT by suffering it to thaw in a dark chamber with-MEADOWS AND MARSHES, in the councut rice, after being in a frozen state for two or ty of Bergen, in the above state. The rich and three months; I kept them six weeks after they extensive improvements of the Messrs. Swartwere thus thawed in great perfection.

in reading the treatises obtained from the former nally amounts to 300 thousand dollars. The country; so in this country, the climates of Ken-first Board of Directors consists of the followtucky and New York, are so different, that pro-ing gentiemen:—Cadwallader D. Colden, Isaac per positions for orchards of apples and peachs, Chauncey, William Bayard, John Swartwout, must depend almost as much on climate, as on Robert Swartwout, Samuel Swartwout, Peter Auaspect or soil.

I am with great respect, dear Sir, Your obedient servant, WILLIAM COXE.

JOHN S. SKINNER, Esq.

#### SOLID FEET REDUDED TO BUSHELS.

The foot contains 1728 inches. The bushel in use tion, and promises great and essential benefits 2183 inches. For the farmer's estimates and gross to the country.

liable to injury from frost, than those of the purposes, it will be near enough though not quite ex-

How many bushels of wheat will a room of 1000 solid feet hold? 0.8

800.0

800 bushels:

791 bushels exactly. A cart body containing 40 feet.

.791 40

-32.0 bushels, struck measure.

31.640 or 31 64

# THE FARMER.

BALTIMORE, FRIDAY, MAY 26, 1820.

None of our readers can have been more impa given to a south-east aspect in my treatise, I tient to see, than we have been to shew them Mr.

#### GREAT WESTERN CANAL.

The Commissioners of the great Western Canal, are

The Western Canal is open, and great quantities of Mr. Harden's theory of the beneficial influ-lumber are wafted from Champlain and its borders to

#### **NEW JERSEY**

### Salt Marsh Company.

The legislature of New Jersey has incorpowout's at Hoboken and Newark, will go into the Orchardists should never lose sight of the hands of the company, and they are empowered different climates of England and America, to make other purchases, until the capital origi-Robert Swartwout, Samuel Swartwout, Peter Augustus Jay, Charles G. Haines, Joseph G. Swift, Robert Tillotson, Henry Eckford, David J. Green, Richard Ricker, John Graham, George Buckmaster, Robert McQueen, Lib. To Buckmaster, Robert McQueen, John Targee, James L. Bell, of the city of New York, and John Condit, Robert Campbell, and William S Pennington, of New Jersey.

This company will go into immediate opera-

Present Prices of Country Produce in this Market.

Actual sales of Wheat—White, \$1 2 to \$14—Ren, 97 cts. to \$1 2—Corn, 44 to 46 cts.—Rre, 55 to 57 cts.—Hav, per ton \$18 to \$19—Straw, do. \$12—Po-tatoes, 50 cts.—Flour, from the wagons, \$4 62\frac{1}{2} to S4 75-Whisker, from do. 331 to 34 cts.—Butter, 25 cts.—Eggs, 121 cts.—Lamb, per quarter, 50 to 871 cts.—White Beans, per bushel, \$1 50-Black Eye Peas, per bushel, \$1-Herrings, Susquehannah, No. 1, Peas, per bushel, \$1—Herrings, Susquehannah, No. 1, retail, \$2 75—Bo. No. 2, \$2 25—Mackerel, No. 1, retail, \$7—Do. No. 2, \$6—Do. No. 3, \$5—Cod Fish, \$3 to \$3 50—Feathers, 45 to 50—Best London Whitte Lead, ground in oil, \$17—Do. dry, \$14 50—Boiled Oil, \$1 25—Tar, plenty, \$1 75—Turtentine, soft, \$2 25—Rosin, \$1 75 to \$2, dull—Spirits, do. 30 cts.—Pitch, \$2 50—Shad, trimmed, \$6, scarce.—Do. untrimmed, \$5—Maryland Tobacoo, a few hhds. Patuxent, sold the present week for \$5, 7, and \$9, common quality—Wagon Tobacoo, selling for \$16 to \$19. mon quality—Wagon Tobacco, selling for \$16 to \$19.
No sales of Virginia Tobacco, that we have heard of.

#### POETRY.

From the "Microscope," a work edited by a fraternity of gentlemen in New Haven.

The fairest rose is far awa'.

The morn is blinking o'er the hills With soften'd light and colours gay Through grove and valley sweetly trills The melody of early day; The dewy roses blooming fair Glitter around her father's ha', But still my Mary is not there-The fairest rose is far awa.'

The cooling zephyrs gently blow Along the dew-bespangled mead-In every field the oxen low-The careless shepherd tunes his reed-And while the roses blossom fair, My lute with softly dying fa' Laments that Mary is not there-The fairest rose is far awa'.

The thrush is singing on the hills And charms the groves that wave around, And through the vale the winding rills Awake a softly murmuring sound; The robin tunes his mellow throat Where glitt'ring roses sweetly blaw, But grieves that Mary hears him not-The fairest rose is far awa'.

Why breath thy melody in vain Thou lovely songster of the morn— Why pour thy ever varying strain Amid the sprays of yonder thorn-Do not the roses blooming fair At morning's dawn or evening fa' Tell thee of one that is not there-The fairest rose that's far awa'.

### RUTA BAGA SEED.

May 26th, 1820.

BALTIMORE,

PUBLISHED EVERY FRIDAY,

\*BY JOHN S. SKINNER, EDITOR.